Individual Meter Data Read from Automatic Meter Reader System Devices

Data Transferred to Utility Servers for Bill Computation or

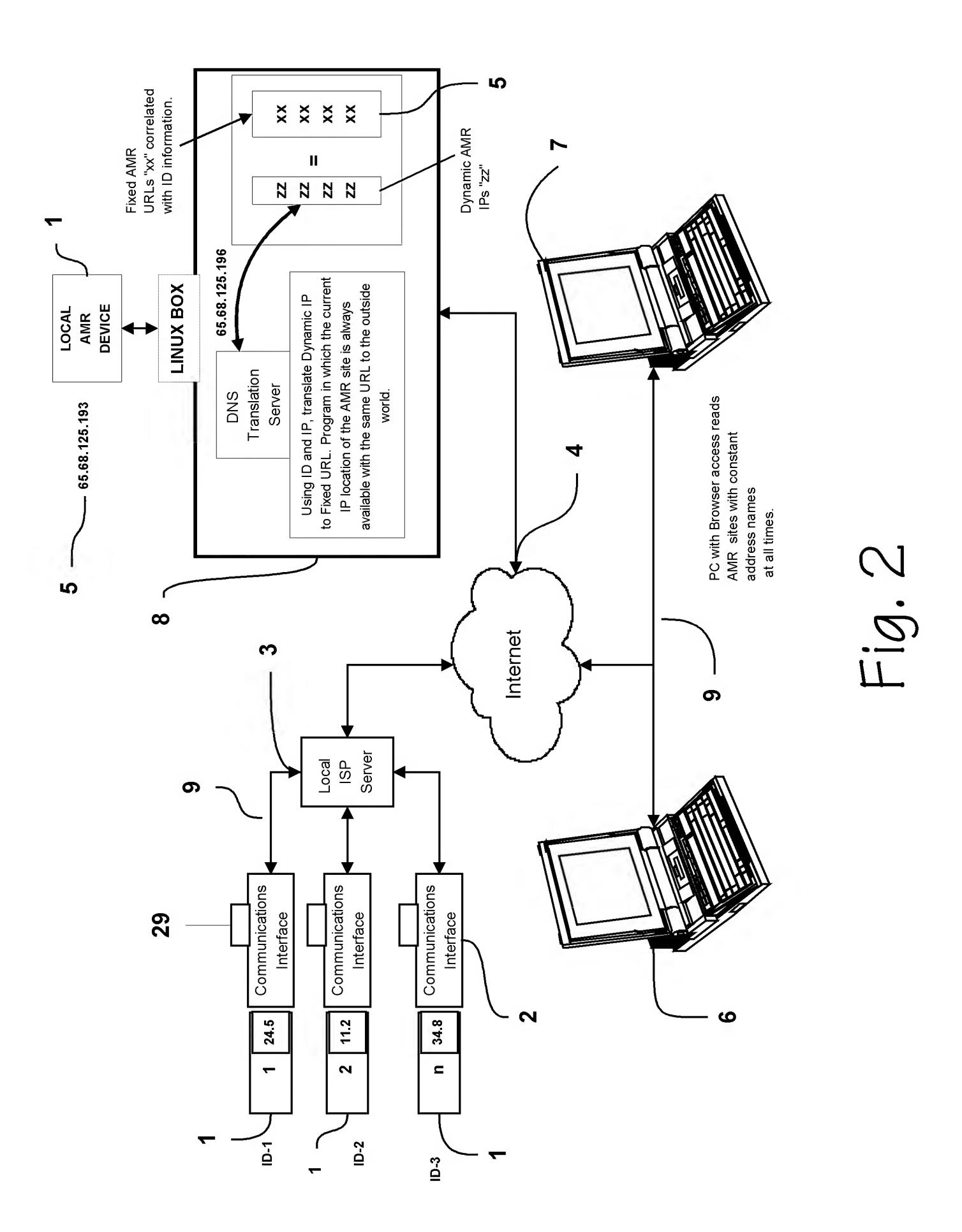
Bill calculated at meter by intelligent device.

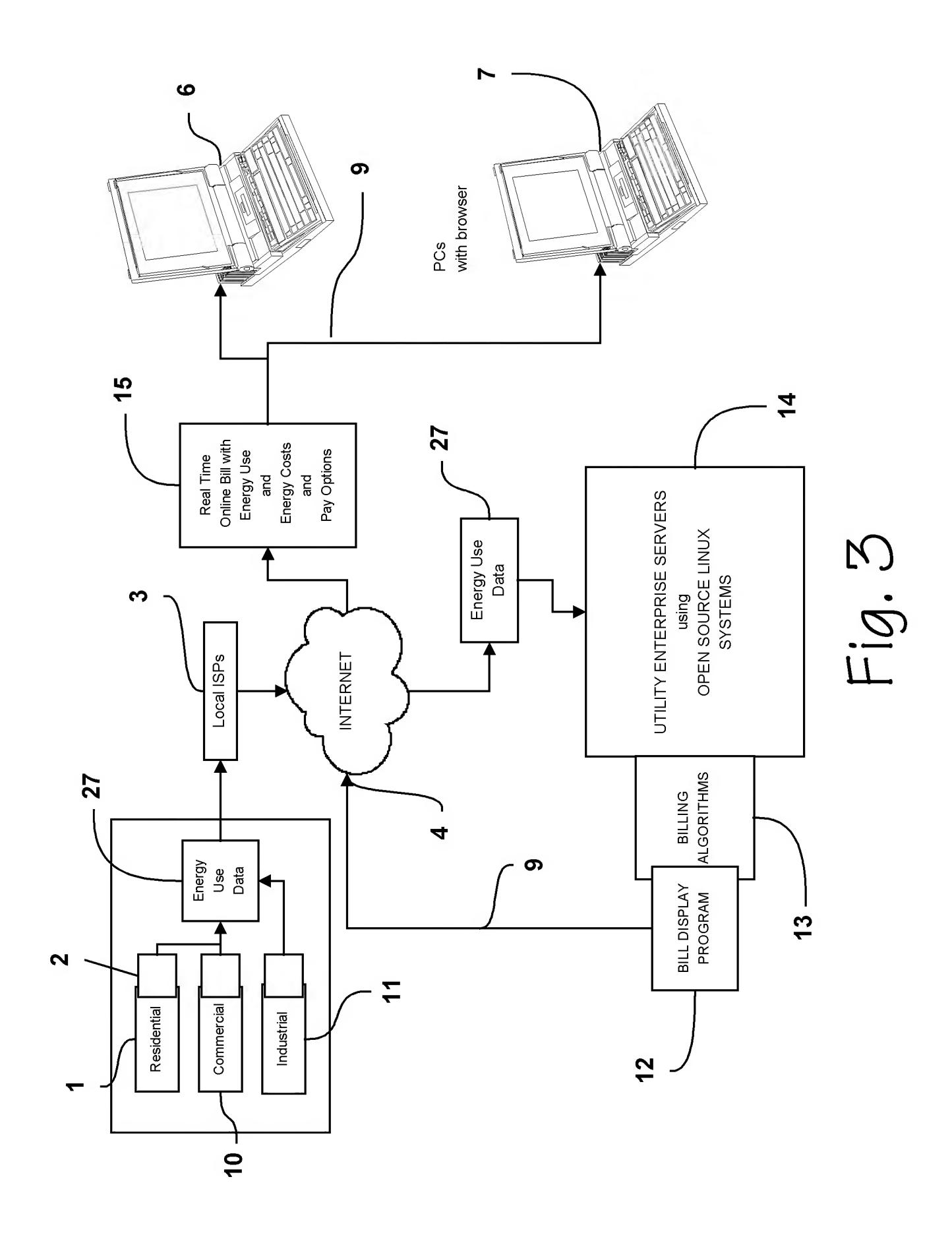
In either case: Billing Algorithm

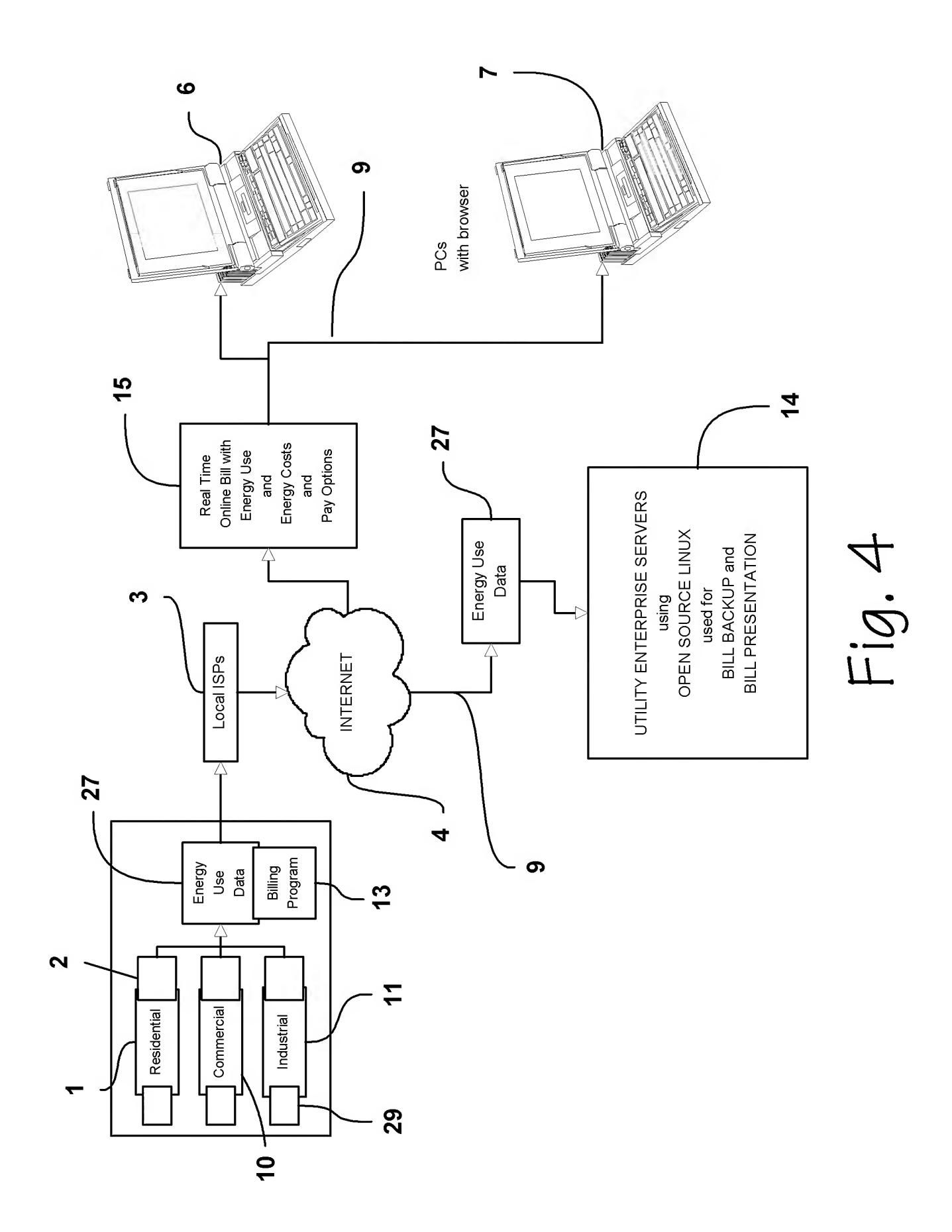
Selects the appropriate

Billing Calculation

Using the Internet the computed Bill is presented and displayed at the meter site by the AMR Device or on the utility website for user to view in real time.







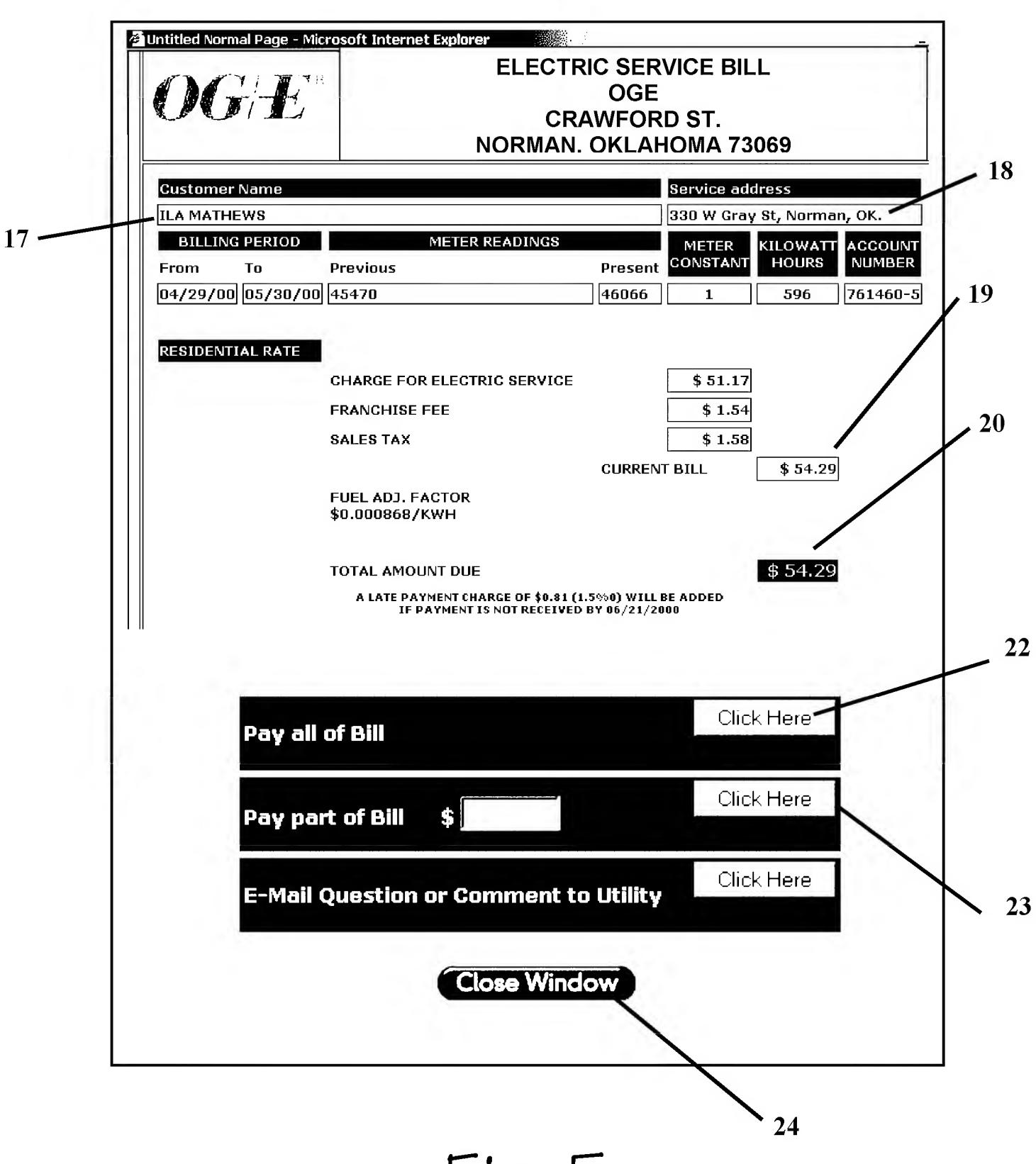


Fig. 5

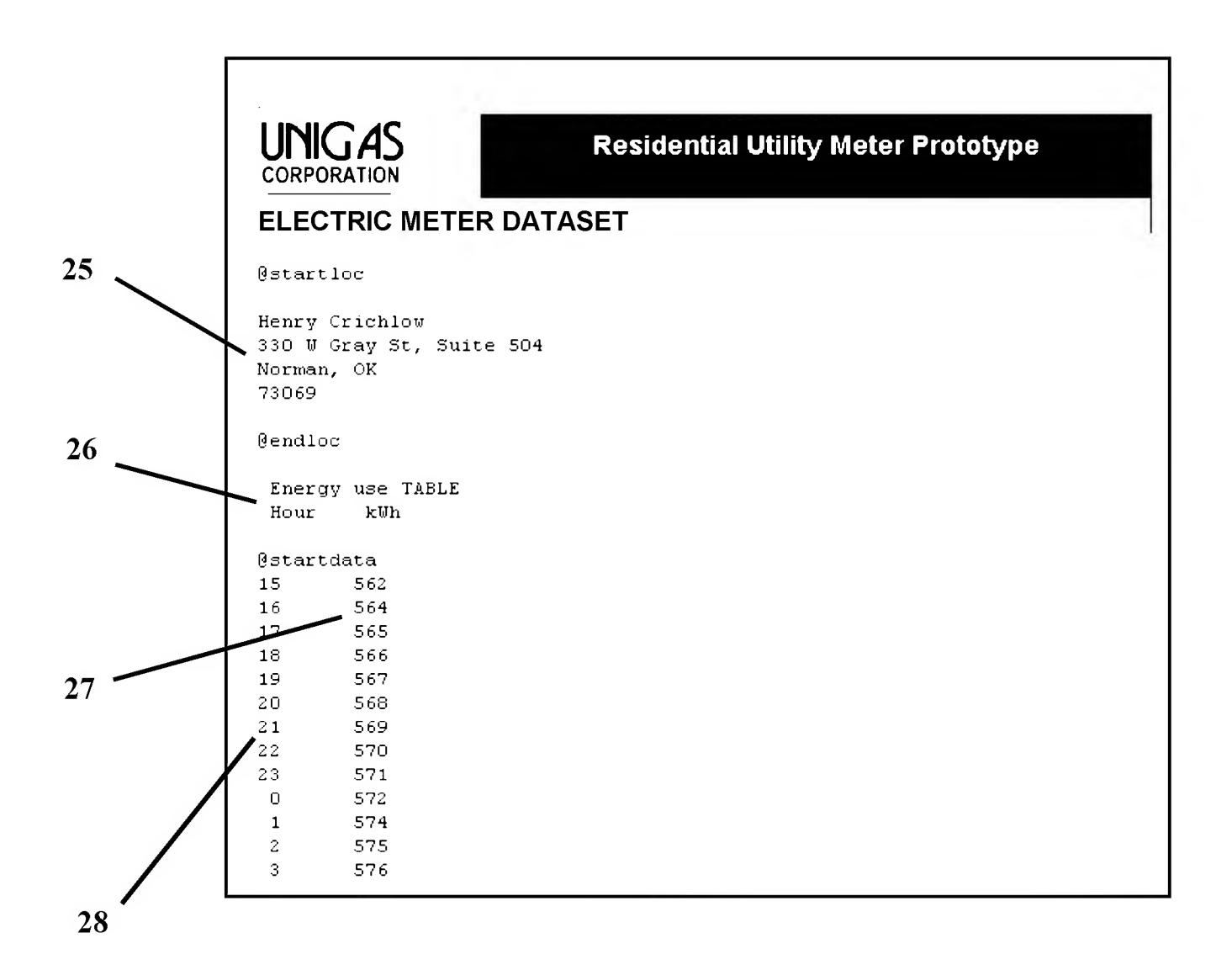


Fig. 6

Possible Modes

- Server mode meter device reads data and sends to server to compute, & display bill as webpage on company server.
- Client mode meter device computes bill, displays bill online as webpage at meter site. Client meter behaves like a microserver device.
- Hybrid Server mode Meter device computes bill, send info to server for display and bill payment. Bill is displayed at both meter site and company server site. =

Server Based - bill is computed, presented, stored, displayed and paid at company server

Action Implemented

Step

Meter energy use data is obtained by metering device

Usage data sent via isp and internet to company server

Company server selects the appropiate billing algorithm

Company server program computes bill

Bill data is converted to HTML or XML code Bill data is displayed on website as online bill

1 through 6 to provide real time updating of billing data Process loops continuously from

Customer logs on to website ∞ o C

Customer reads bill online

Customer decides to pay bill online or pay via offline channels like mail

, presented, stored, displayed and paid at meter microserver Client Based - bill is computed

Action Implemented Step

- Meter energy use data is obtained by intelligent metering device
 - Billing algorithm is coded into program at meter site
 - Client device computes bill
- Bill data is sent to company server via internet and stored on company server as backup 0 m 4 m 0
 - Bill data is converted to HTML or XML code at client microserver
- webpage on client microserver Bill data is displayed online at
- Process loops continuously from 1 through 6 to provide real time updating of billing data /
- Customer logs on to website via internet ∞ o C
- Customer reads bill online at meter microserver
- Customer decides to pay bill online or pay via offline channels like mail

Hybrid Based - bill is computed, presented, stored, displayed and paid at company serve and or meter site.

Action Implemented

- Meter energy use data is obtained by intelligent metering device
 - Billing algorithm is coded into computer software at meter site 0 m
 - Client device computes bill, behaves like a micro-server
- Action (1)
- company server via internet Computed bill data is sent to
- Computed bill data is converted to HTML or XML code on company server 4507
- Computed bill data is displayed on website as online bill on company server
- Action (2)
- Computed bill Data is stored at client meter site ထ တ
- Computed bill data is converted to HTML or XML code on client meter site 10
- Computed bill data is displayed on website at meter microserver as online bill
- Process loops continuously from 1 through 11 to provide real time updating of billing dat 12
- Customer logs on to internet and finds websites at meter or at company URL locations
 - Customer reads bill online either at company server or at meter microserver itself
 - Customer decides to pay bill online or pay via offline channels like mail

PRICES:

\$6.50 per customer per month Customer Charge:

\$6.00 per customer per month for five Summer Season months. Time-of-Use Meter Charge:

Energy Charge:

The five OG&E Revenue Months of June through October. Summer Season:

through September 30, beginning each day at 1:01 PM through 7:00 PM On-Peak Hours: 20.55c per kWh per month. From June 1

local time, excluding Saturdays, Sundays, Independence Day (as observed) and Labor Day.

Off-Peak Hours: 3.18c per kWh per month. All hours not defined as

On-Peak hours.

The seven OG&E Revenue Months of November through May of the succeeding year. Winter Season:

First 600 kWh per month: 7.8 c per kWh. All additional kWh per month: 3.18c per kWh.

Customer Charge/Month TOU Meter Charge/Month			\$6.50 \$6.00	(a) (b)
Energy Charge - Summer Season				
	On Peak Hours Costs	\$0.2055	KwHr/Mo	(c)
	Off Peak Hours Cost	\$0.0318	KwHr/Mo	(d)
Energy Use				
	On Peak Hours KwHr	2,345	KwHr	(e)
	Off Peak Hours KwHr	488	KwHr	(f)
	Total Energy Use	2,833	KwHr	(g)
Energy Costs				
	Off Peak Use	\$481.90		(h)
	Off Peak Use	\$15.52		(i)
	Total Energy	\$497.42		(j)
Total Costs = \$509.92		92		(k)
Calculation Algorithm : (k) = (a) + (b) $x [(e) x (c) + (f) x (d)]$				

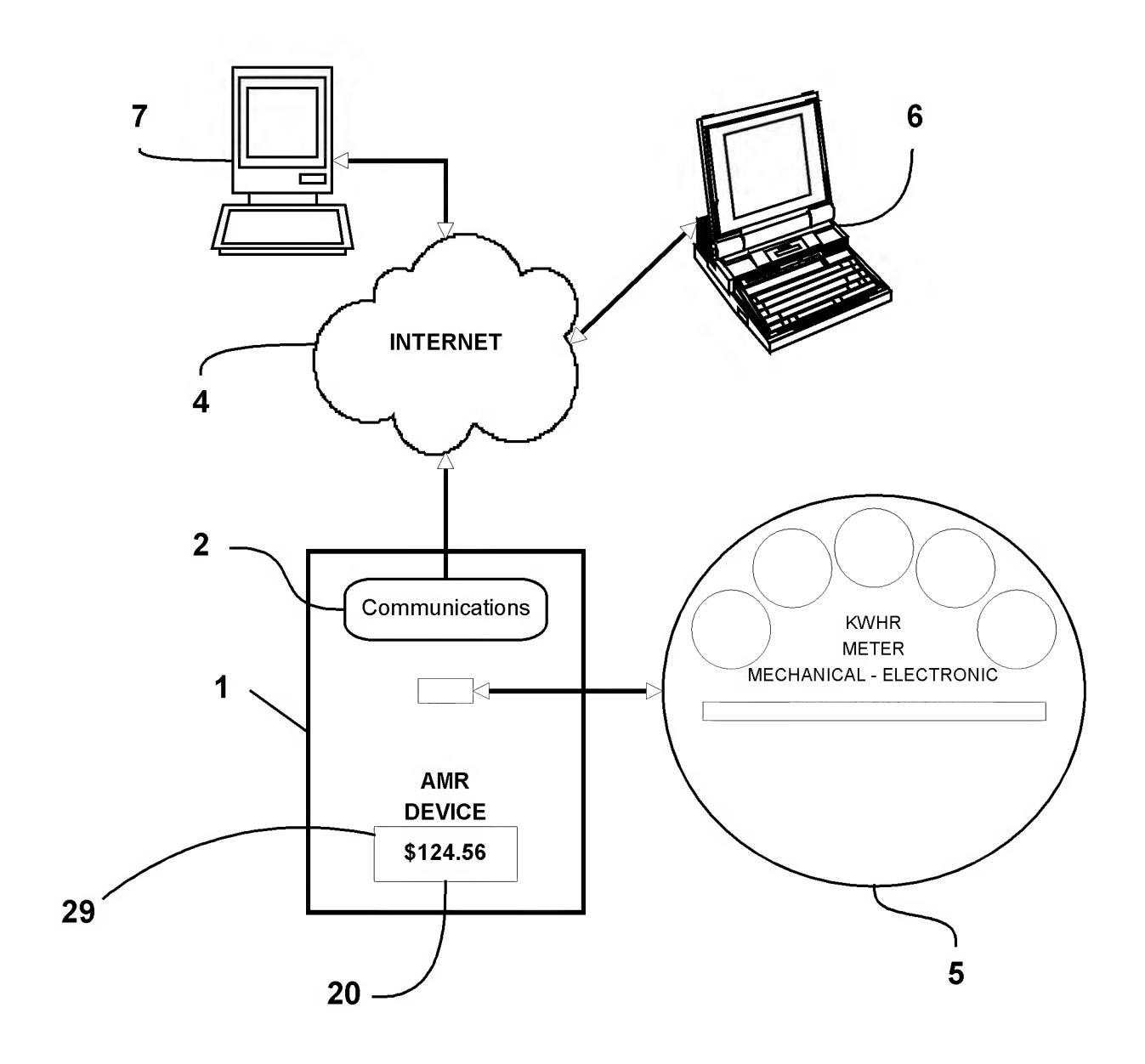


Fig. 13